V.H.F. POWER DOUBLE TETRODE

QQV04-15

V.H.F. double tetrode rated for a maximum anode dissipation of 7.5W per section and suitable for use at frequencies up to 250 Mc/s.

This data should be read in conjunction with GENERAL OPE RECOMMENDATIONS — TRANSMITTING VALVES incluved the handbook.		
CATHODE Indirectly heated for series or parallel operation.	,	
Series	Parallel	1
V _h 12.6	6.3	V
J _h 0.8	1.6	A
MOUNTING POSITION	Any	
CAPACITANCES (each section)		
	< 0.07	E
C _{a-g1}	< 0.07 8.0	pF pF
Cout	3.8	pF
*c _{g2_k} (approx.)	65	pF
*Including capacitor connected internally between	gaand k.	
merading capacitor connected many between	Sand X.	
CHARACTERISTICS (each section; measured at Ia = 30mA)	_/	
CHARACTERISTICS (each section, measured at Ia = 300nA)		
g _m		nA/V
$\mu_{\mathrm{g1-g2}}$	6.5	
COOLING Natural cooling		
Maximum bulb temperature	200	°C
Maximum temperature of seals	180	°C
OPERATING CONDITIONS AS PUSH-PULL R.F. POW	ED A MEN 11	-1
OR OSCILLATOR CLASS "C" TELEGRAPHY OR F.M.	EK AMPLII TELEPHO	NY)
Limiting values (absolute ratings)		,
$V_a = \frac{1}{200 \text{Mc/s}}$	750	V
V_a max. $(f/= 250Mc/s)$	750 670	V
$p_a \text{ max.}$	2×7.5	w
V _{g2} max.	250	v
pas max.	5.0	w
/ Ik max.	2×55	mA
ikiph max.	2×260	mA
V_{g1} max.	-175	٧
I _{g1} max.	2×3.0	mΑ
$R_{g1\dots k}$ max. (each section)	50	$\mathbf{k}\Omega$
V_{h-k} max.	100	٧

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Typical operating co	nditions			
f	200	200	250	Mc/s
V _a	500	750	500	V
V_{g2}	200	200	200	V
V_{g1}	65	65	-65	V
l _a	2×36	2×24	2×32	mA
l_{g2}	14	15	12	mΑ
lg1 (approx.)	2×1.3	2×1.4	2×0.9	mΑ
$V_{in(g1-g1)pk}$	150	150	140	V
Pload(driver)	500	600	800	mW
Pa	2×5.0	2×5.0	2×7.0	W
Pout	26	26	18	W
γ_i	72	72	56	%
Pload	21	21	14.5	W

OPERATING CONDITIONS AS ANODE AND SCREEN-GRID MODULATED PUSH-PULL R.F. POWER AMPLIFIER (CLASS "C" TELEPHONY)

Limiting values (carrier condition for modulation factor of 1) (absolute ratings)

V_a max. (f = 200Mc/s)	600	V
V_a max. $(f = 250 Mc/s)$	530	V
p _s max.	2×5.0	W
V _{g2} max.	250	V
p _{g2} max.	3.4	W
Ik max.	2×50	mΑ
$i_{k(pk)}$ max.	2×400	mΑ
V _{g1} max.	–175	V
ig1 max.	2×3.0	mΑ
R_{g1-k} max. (each section)	50	$k\Omega$
V_{h-k} max.	100	٧

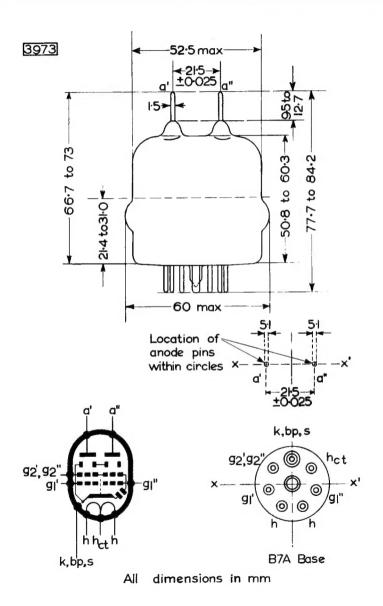
Typical operating conditions

f	200	200	Mc/s
V_{a}	425	600	V
V_{g2}	200	200	V
V_{g_1}	-60	-65	V
l _a	2×26	2×18	mA
l_{g2}	16	16	mΑ
Ig1 (approx.)	2×1.2	2×1.3	mΑ
$v_{in(g1-g1)} pk$	140	150	V
Pload(driver)	500	500	mW
Pa	2×3.0	2×2.3	W
Pout	16	17	W
η	72	79	%
Pload	13	14	% W
For 100% modulation			
P_{mod}	12.5	12.5	W
V g2(pk)	140	140	٧

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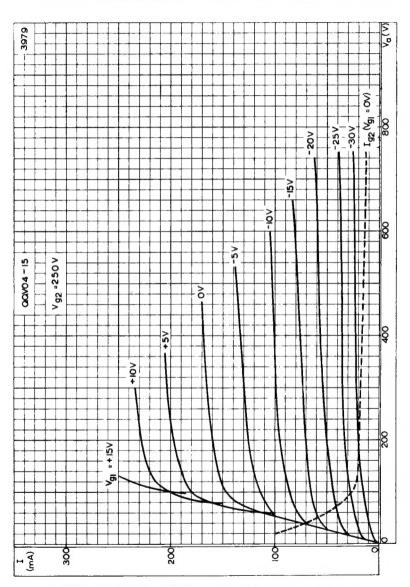
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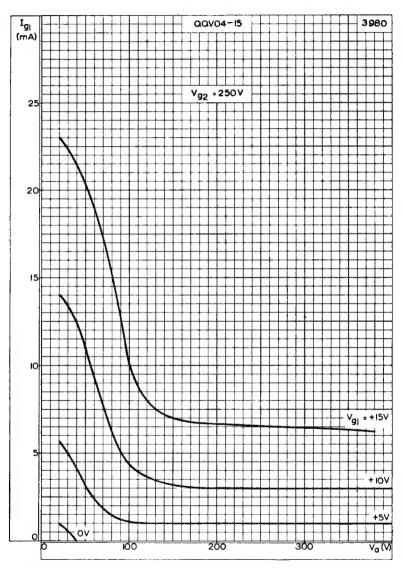
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ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE

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CONTROL-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE